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| FORM PTO-1449 (Rev. 7-80) LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. NREL 99-50 | SERIAL NO. 09/841,691 |
| | APPLICANT(S) Mascarenhas, Angelo | | |
| | FILING DATE April 24, 2001 | GROUP Not Yet Accorded | |

U.S. PATENT DOCUMENTS

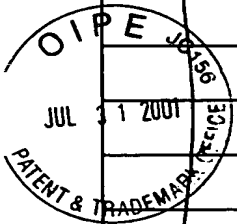
| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|-----------------|--------------------|--------------------------|-------|----------|-------------------------------|
| AA | 6,002,202 | December 14, 1999 | Meyer <i>et al.</i> | 313 | 420 | |
| AB | 5,986,288 | November 16, 1999 | Hasegawa | 257 | 94 | |
| AC | 5,963,571 | October 5, 1999 | Wingreen | 372 | 45 | |
| AD | 5,895,225 | April 20, 1999 | Kidoguchi <i>et al.</i> | 438 | 47 | |
| AE | 5,776,793 | July 7, 1998 | Lee <i>et al.</i> | 438 | 35 | |
| AF | 5,728,231 | March 17, 1998 | Negami <i>et al.</i> | 148 | 33 | |
| AG | 5,453,404 | September 26, 1995 | Leedy | 437 | 203 | |
| AH | 5,387,544 | February 7, 1995 | Hayafuji | 437 | 151 | |
| AI | 5,344,791 | September 6, 1994 | Huang | 437 | 126 | |
| AJ | 5,231,298 | July 27, 1993 | Daly | 257 | 191 | |
| AK | 5,158,896 | October 27, 1992 | Burroughes <i>et al.</i> | 437 | 5 | |
| AL | 5,116,455 | May 26, 1992 | Daly | 156 | 605 | |
| AM | 5,028,561 | July 2, 1991 | Kamath <i>et al.</i> | 437 | 105 | |
| AN | 4,939,103 | July 3, 1990 | Szolgyemy | 437 | 151 | |
| AO | 4,591,654 | May 27, 1986 | Yamaguchi <i>et al.</i> | 136 | 252 | |
| AP | 4,400,221 | August 23, 1983 | Rahilly | 148 | 1.5 | |
| AQ | 4,284,962 | August 18, 1981 | Esterowitz <i>et al.</i> | 331 | 94.5 F | |

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| AR | Oe, K. and Okamoto, H., "New Semiconductor Alloy AgAs _{1-x} Bi _x Grown by Metal Organic Vapor Phase Exptaxy", <i>Japanese Journal of Applied Physics</i> , Vol. 37, pp. L1283 - L1285, November 1998. |
| AS | Yamamoto, T. and Katayama-Yoshida, H., "Solution Using a Codoping Method to <i>Unipolarity</i> for the Fabrication of <i>p-Type ZnO</i> ", <i>Japanese Journal of Applied Physics</i> , Vol 38, pt. 2, no. 2B, pp. L166 - L169, Feb. 1999 |



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| AT | Ploog, K.H. and Brandt, O., "Doping of group III nitrides", <i>Journal of Vacuum Society Technology A</i> , Vol. 16, No. 3, pg. 1609, August 1998. |
| AU | Yamamoto, T. and Katayama-Yoshida, H. "Role of Clor I Codoping in Li-Doping Enhancement in ZnSe", <i>Japanese Journal of Applied Physics</i> , Pt. 2, No. 8A, pp. L910 - L912, August 1998. |
| AV | Brandt, O.; Yang, H.; Kostial, H.; and Ploog, K.H., "High <i>p</i> -type conductivity in cubic GaN/GaAs(113) <i>A</i> by using Be as the acceptor and O as the codopant", <i>Applied Physics Letters</i> , Vol. 69, No. 18, pp. 2707 - 2709, October 1996. |
| AW | Pankove, J.I.; Torvid, J.T.; Qui, C.-H.; Grzegory, I.; Porowski, S.; Qui, C.-H.; Grzegory, I.; Porowski, S.; Quigley, P.; Martin, B., "Molecular Doping of Gallium Nitride", <i>Applied Physics Letters</i> , Vol. 74, No. 3, pp. 416 - 418, Jan. 1999. |
| AX | White, C.W.; Budai, J.D.; Zhu, J.G; and Withrow, S.P., "Ion-beam sythesis and stability of GaAs Nanocrystals in silicon", <i>Applied Physics Letters</i> , Vol. 68, No. 17, pp. 2389 - 2391, April 1996. |
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| AZ | Kuznetsov, V.V.; Pikhtin, A.N.; Razbegaev, V.N.; and Sorokin, V.S., "High-temperature luminescence of GaP:Bi:N", <i>Sov. Phys. Semicond.</i> , 14(4), pp. 417 - 419, April 1980. |
| BA | Trumbore, M.; Gershenson, M.; and Thomas, D.G., "Luminescence due to the Isoelectronic Substitution of Bismuth for Phosphorus in Gallium Phosphide", <i>Applied Physics Letters</i> , Vol. 9, No. 1, pp. 4 - 6, July 1966. |

EXAMINER

2/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not